

**DECLARATION AND POWER OF ATTORNEY  
UNDER 35 USC §371(c)(4) FOR  
PCT APPLICATION FOR UNITED STATES PATENT**

As a below named inventor, I hereby declare that:  
my residence, post office address and citizenship are as stated below under my name;

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought, namely the invention entitled: TWO-DIMENSIONAL PHOTONIC CRYSTAL SLAB  
HAVING THREE-DIMENSIONAL LOCAL STRUCTURE

described and claimed in international application number PCT/JP2003/015635 filed December 5, 2003.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations §1.56.

Under Title 35, U.S. Code §119, the priority benefits of the following foreign application(s) filed by me or my legal representatives or assigns within one year prior to my international application are hereby claimed:

**Japanese Patent Application No. 2002-355631 filed December 6, 2002**

The following application(s) for patent or inventor's certificate on this invention were filed in countries foreign to the United States of America either (a) more than one year prior to my international application, or (b) before the filing date of the above-named foreign priority application(s):

NONE

I hereby appoint the following as my attorneys of record with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office:

**James A. Oliff, Reg. No. 27,075; William P. Berridge, Reg. No. 30,024;  
Kirk M. Hudson, Reg. No. 27,562; Thomas J. Pardini, Reg. No. 30,411;  
Edward P. Walker, Reg. No. 31,450; Robert A. Miller, Reg. No. 32,771;  
Mario A. Costantino, Reg. No. 33,565; Stephen J. Roe, Reg. No. 34,463;  
Joel S. Armstrong, Reg. No. 36,430; Christopher W. Brown, Reg. No. 38,025;  
Richard E. Rice, Reg. No. 31,560; and Paul Tsou, Reg. No. 37,956.**

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA, VIRGINIA 22320, TELEPHONE (703) 836-6400.**

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1 **Typewritten Full Name  
of Sole or First Inventor**

Susumu NODA  
Given Name Middle Initial Family Name

2 **Inventor's Signature:**

Susumu Noda

3 **Date of Signature:**

April 27 2005  
Month Day Year

**Residence:**

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**Citizenship:** Japanese

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**Note to Inventor: Please sign name on line 2 exactly as it appears in line 1 and insert the actual date of signing on line 3.**

**IF THERE IS MORE THAN ONE INVENTOR USE PAGE 2 AND PLACE AN "X" HERE ☒**  
(Discard this page in a sole inventor application)

1 **Typewritten Full Name of Joint Inventor** Takashi ASANO  
 2 **Inventor's Signature:** Takashi ASANO  
 3 **Date of Signature:** 04 14 2005  
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1 **Typewritten Full Name of Joint Inventor** Yoshinori TANAKA  
 2 **Inventor's Signature:** Yoshinori Tanaka  
 3 **Date of Signature:** June 7 2005  
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1 **Typewritten Full Name of Joint Inventor** \_\_\_\_\_  
 2 **Inventor's Signature:** \_\_\_\_\_  
 3 **Date of Signature:** \_\_\_\_\_  
 Month Day Year  
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 City State or Province Country  
 Citizenship: \_\_\_\_\_

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1 **Typewritten Full Name of Joint Inventor** \_\_\_\_\_  
 2 **Inventor's Signature:** \_\_\_\_\_  
 3 **Date of Signature:** \_\_\_\_\_  
 Month Day Year  
 Residence: \_\_\_\_\_  
 City State or Province Country  
 Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_  
 (Insert complete mailing address, including country)

**Note to Inventor:** Please sign name on line 2 exactly as it appears in line 1 and insert the actual date of signing on line 3.

**This form may be executed only when attached to the first page of the Declaration and Power of Attorney of the application to which it pertains.**

Rec'd PCT/PTO 15 JUN 2005

**PATENT APPLICATION**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**DESIGNATION OF TEN ATTORNEYS  
FOR POWER OF ATTORNEY**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450


Sir:

This serves as a separate paper in compliance with 37 CFR §1.32(b) indicating that the following ten patent practitioners named in the attached power of attorney are to be recognized by the Patent Office as being of record in the application to which the attached power of attorney is directed:

James A. Oliff, Reg. No. 27,075; William P. Berridge, Reg. No. 30,024;  
Thomas J. Pardini, Reg. No. 30,411; Edward P. Walker, Reg. No. 31,450;  
Robert A. Miller, Reg. No. 32,771; Mario A. Costantino, Reg. No. 33,565;  
Joel S. Armstrong, Reg. No. 36,430; Christopher W. Brown, Reg. No. 38,025;  
Paul Tsou, Reg. No. 37,956; and Eric D. Morehouse, Reg. No. 38,565.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION  
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944,  
TELEPHONE (703) 836-6400.

Respectfully submitted,



Thomas J. Pardini  
Registration No. 30,411

TJP/

Best Available Copy